09/825.244

Freeform Search

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END OF SEARCH HISTORY

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L2: Entry 19 of 19

File: USPT

Jul 18, 1989

DOCUMENT-IDENTIFIER: US 4849357 A

TITLE: Method for the preparation of a hydrophobic enzyme-containing composition and the composition produced thereby

Brief Summary Paragraph Right (12):

Any hydrophilic, or water-soluble, enzymes can be employed in the composition and method of the present invention, including hydrolases, oxidoreductases (glucose oxidase, xanthic oxidase, amino acid oxidase), transferases (transglycosidases, transphosphorylases, phosphomutases, transaminases, transmethylases, transacetylases), desmolases (ligases, lyases) and isomerases (racemases, cis-trans isomerases) and the like. Of these enzymes, the hydrolases are preferred for use in the present compositions. Hydrolases catalyze a wide variety of hydrolytic reactions, including (a) the cleavage of ester linkages (esterases such as lipases, phosphoric mono- and di-esterhydrolases such as phosphatases), (b) the cleavage of glycosides (carbohydrases such as polysaccharidases, e.g., levan hydrolase, cellulase, amylase, ligninolase and the like). (c) the cleavage of peptide linkages (proteases such as alpha-aminopeptide amino acid hydrolases, alpha-carboxypeptide amino acid hydrolases) and the cleavage of nucleic acids (nucleases).

19/32-144

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NEWS INTER General Internet Information	NEWS							
NEWS LOGIN Welcome Banner and News Items	NEWS	LOG	IN	We]	lcome Banner and News Items			
NEWS PHONE Direct Dial and Telecommunication Network Access to STN	NEWS			Dir	rect Dial and Telecommunication Network Access to STN			
NEWS WWW CAS World Wide Web Site (general information)	NEWS	WWW		CAS	World Wide Web Site (general information)			

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=> d 13 1-5 bib ab

- L3ANSWER 1 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AN1991:453681 BIOSIS
- BA92:98461 DN
- TICLEAVAGE OF VASOACTIVE INTESTINAL PEPTIDE AT MULTIPLE SITES BY AUTOANTIBODIES.
- ΑU PAUL S; MEI S; MODY B; EKLUND S H; BEACH C M; MASSEY R J; HAMEL F
- CS DEP. PHARMACOL., BIOCHEM. INTERNAL MED., UNIVERSITY NEBRASKA MEDICAL

CENTER, OMAHA, NEBR. 68198-16134.

SO J BIOL CHEM, (1991) 266 (24), 16128-16134. CODEN: JBCHA3. ISSN: 0021-9258.

FS BA; OLD

LA English

AB Vasoactive intestinal peptide (VIP) fragments generated by autoantibodies purified from the blood of two human beings were separated and sequenced. Based on the identity of these fragments, seven peptide bonds cleaved by the antibodies were identified. Six of the seven scissile bonds are clustered in the region of VIP spanning residues 14-22 and were cleaved by antibodies from both human subjects. The seventh scissile bond is located at residues 7-8 and was cleaved by antibodies from one of the subjects. The scissile bonds link amino acid residues with different size, charge, and hydrophobicity. The hydrolytic activity of the antibodies was selective in that they failed to hydrolyze polypeptide unrelated in sequence to VIP (insulin and atrial natriuretic peptide). These observations demonstrate substrate specific hydrolysis by naturally occurring antibodies and expand the range of peptide bonds hydrolyzed by these antibodies.

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS

AN 1999:614079 CAPLUS

DN 131:225480

TI A protease-activated reporter enzyme for screening for proteases, their cleavage sites, and cellular regulators of proteinase activity

IN Hay, Bruce A.; Hawkins, Christine V.

PA California Institute of Technology, USA

SO PCT Int. Appl., 64 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PΤ

T.3

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9947640 A1 19990923 WO 1999-US6070 19990319

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRAI US 1998-78721P P 19980320 US 1999-270983 A 19990317

A method of screening for proteinase activity using the enzyme to activate a reporter enzyme is described. The inactive form of the reporter enzyme has a repressor **polypeptide** that inhibits it fused via a proteinase-labile linker peptide to the catalytic moiety. Cleavage of the linker polypeptide at the protease cleavage site liberates the reporter activity. The method can also be used to study sequence requirements for specific proteinases and for screening for proteinase inhibitors. The method can be conducted in vivo using expression constructs, i.e. reporter genes, for the reporter enzyme fusion protein. In the case of enzymes such as caspases, physiol. regulators of the enzyme can also be detected. A caspase reporter system using a linker peptide contg. cleavage sites for granzyme B and other caspases to link an N-terminal domain from human CD4 antigen and a C-terminal domain that is a transcription factor contg. the LexA binding domain was constructed for use in a yeast expression host. The expression host also contained a lacZ reporter under control of a LexA-responsive promoter. The fusion protein is membrane bound by the CD4 moiety and cleavage liberates the transcription factor to drive expression of the reporter gene. The proteinase gene can be under control of its own promoter or of a chem. inducible promoter as necessary.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

AN 1950:33320 CAPLUS

DN 44:33320 OREF 44:6390d-h

TI New synthesis of **polypeptides** by condensation of amides of hydroxy acids

AU Bresler, S. E.; Selezneva, N. A.

CS Leningrad Phys. Tech. Inst., Acad. Sci., U.S.S.R.

SO Zhur. Obshchei Khim. (J. Gen. Chem.) (1950), 20, 356-00

DT Journal LA Unavailable

AcNH2 (40 g.) in 100 ml. abs. EtOH refluxed 20-30 min. with 11.5 g. EtONa AΒ gave a cryst. product which was taken up in more EtOH and satd. with dry HCl, filtered, and evapd., yielding 100% AcNHEt-HCl, m. 59.degree.. No by-products were detected. Hence the reaction was applied to the derivs. of HO acids to form polymeric products. Lactic acid was converted by treatment of the Et ester with NH3 into the amide which, boiled with Na in dioxane, yielded the Na deriv., MeCH(ONa)CONH2, m. 26.degree.. The product (8 g.) heated in an evacuated tube 3-4 weeks to 80.degree. gave a transparent resin, which was treated in EtOH with dry HCl, filtered, and evapd., yielding a clear resin, decomp. 105.degree. without melting; it is sol. in H2O, less in EtOH, insol. in Et2O, dioxane, or Me2CO. Condensation for 5-7 days gives a softer resin. Condensation of the free amide with metallic Na at 110.degree. gave a dark product and considerable NH3. Hydrolysis of the product by alc. aq. HCl at 33.degree. in 22 hrs. gave 40% cleavage of the peptide links, while pancreatin gave 45% hydrolysis in 10 hrs. In both cases alanine was the end product, hence the resin was a polypeptide of polyalanine type. Adsorption on charcoal and refractometric examn. of the soln. established the polymeric nature of the product and its hydrolyzates. Polarimetric examn. showed 89% retention of the L-configuration. Mol. wt. by viscosity detns. gave 5000-6000 av. mol. wts.

L3 ANSWER 4 OF 5 MEDLINE

AN 97238549 MEDLINE

DN 97238549 PubMed ID: 9131999

TI Chemical cross-linking of the human immunodeficiency virus type 1 Tat protein to synthetic models of the RNA recognition sequence TAR containing site-specific trisubstituted pyrophosphate analogues.

AU Naryshkin N A; Farrow M A; Ivanovskaya M G; Oretskaya T S; Shabarova Z A; Gait M J

CS Laboratory of Molecular Biology, Medical Research Council, Cambridge, U.K.

SO BIOCHEMISTRY, (1997 Mar 25) 36 (12) 3496-505. Journal code: A0G; 0370623. ISSN: 0006-2960.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199704

ED Entered STN: 19970507 Last Updated on STN: 19970507 Entered Medline: 19970429

AB A chemical ligation procedure has been developed for the synthesis of oligoribonucleotides carrying a trisubstituted pyrophosphate (tsp) linkage in place of a single phosphodiester. Good yields of tsp were obtained when a single 2'-deoxynucleoside 5' to the tsp was used in the ligation reaction. A tsp linkage was found to be reasonably stable to hydrolysis but cleaved by treatment with ethylenediamine or lysine to give phosphoamidate adducts. A model human immunodeficiency virus type 1 (HIV-1) TAR RNA duplex containing an activated tsp was able to bind to HIV-1 Tat protein with only 3-fold reduced affinity and to a Tat peptide (residues 37-72) with identical affinity compared to that of an unmodified duplex. Tsps incorporated at sites previously identified as being in close proximity to Tat protein were able to cross-link to Tat

peptide (37-72) to form a covalent phosphoamidate conjugate. Endopeptidase cleavage followed by MALDI-TOF (matrix-assisted laser desorption ionization time of flight) mass spectrometric analysis provided strong evidence that a TAR duplex containing a tsp replacing the phosphate at 38-39 had reacted specifically with Lys51 in the basic region of Tat peptide (37-72). The new chemical cross-linking method may be generally useful for identifying lysines in close proximity to phosphates in basic RNA-binding domains of proteins.

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L3 ANSWER 5 OF 5 MEDLINE
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AN 91340765 MEDLINE

DN 91340765 PubMed ID: 1874750

- TI Cleavage of vasoactive intestinal peptide at multiple sites by autoantibodies.
- AU Paul S; Mei S; Mody B; Eklund S H; Beach C M; Massey R J; Hamel F
- CS Department of Pharmacology, University of Nebraska Medical Center, Omaha 68198-6260.
- NC 40348 44126
- SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1991 Aug 25) 266 (24) 16128-34. Journal code: HIV; 2985121R. ISSN: 0021-9258.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199109
- ED Entered STN: 19911013 Last Updated on STN: 19911013 Entered Medline: 19910926
- AB Vasoactive intestinal peptide (VIP) fragments generated by autoantibodies purified from the blood of two human beings were separated and sequenced. Based on the identity of these fragments, seven peptide bonds cleaved by the antibodies were identified. Six of the seven scissile bonds are clustered in the region of VIP spanning residues 14-22 and were cleaved by antibodies from both human subjects. The seventh scissile bond is located at residues 7-8 and was cleaved by antibodies from one of the subjects. The scissile bonds link amino acid residues with different size, charge, and hydrophobicity. The hydrolytic activity of the antibodies was selective in that they failed to hydrolyze polypeptides unrelated in sequence to VIP (insulin and atrial natriuretic peptide). These observations demonstrate substrate specific hydrolysis by naturally occurring antibodies and expand the range of peptide bonds hydrolyzed by these antibodies.
- => s 12 and (oligonucleotide# or polynucleotide# or nucleic acid#)
 2 FILES SEARCHED...
- L4 3 L2 AND (OLIGONUCLEOTIDE# OR POLYNUCLEOTIDE# OR NUCLEIC ACID#)
- => d 14 1-3 bib ab
- L4 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AN 1996:70626 BIOSIS
- DN PREV199698642761
- TI Identification of the nicking tyrosine of geminivirus Rep protein.
- AU Laufs, Juergen; Schumacher, Silke; Geisler, Norbert; Jupin, Isabelle; Gronenborn, Bruno (1)
- CS (1) Inst. Sci. Vegetales, CNRS, Ave. de la Terrasse, 91198 Gif sur Yvette Cedex France
- SO FEBS Letters, (1995) Vol. 377, No. 2, pp. 258-262. ISSN: 0014-5793.
- DT Article
- LA English
- AB The replication initiator (Rep) proteins of geminiviruses perform a DNA

cleavage and strand transfer reaction at the viral origin of replication. As a reaction intermediate, Rep proteins become covalently linked to the 5' end of the cleaved DNA. We have used tomato yellow leaf curl virus Rep protein for in vivo and in vitro analyses. Isolating a covalent peptide-nucleotide complex, we have identified the amino acid of Rep which mediates cleavage and links the protein to DNA. We show that tyrosine-103, located in a conserved sequence motif, initiates DNA cleavage and is the physical link between geminivirus Rep protein and its origin DNA.

- L4 ANSWER 2 OF 3 MEDLINE
- AN 2000060989 MEDLINE
- DN 20060989 PubMed ID: 10595540
- TI Mapping of ATP binding regions in poly(A) polymerases by photoaffinity labeling and by mutational analysis identifies a domain conserved in many nucleotidyltransferases.
- AU Martin G; Jeno P; Keller W
- CS Department of Cell Biology, Biozentrum, University of Basel, Switzerland.
- SO PROTEIN SCIENCE, (1999 Nov) 8 (11) 2380-91. Journal code: BNW; 9211750. ISSN: 0961-8368.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200001
- ED Entered STN: 20000124 Last Updated on STN: 20000124 Entered Medline: 20000107
- ΑB We have identified regions in poly(A) polymerases that interact with ATP. Conditions were established for efficient cross-linking of recombinant bovine and yeast poly(A) polymerases to 8-azido-ATP. Mn2+ strongly stimulated this reaction due to a 50-fold lower Ki for 8-azido-ATP in the presence of Mn2+. Mutations of the highly conserved Asp residues 113, 115, and 167, critical for metal binding in the catalytic domain of bovine poly(A) polymerase, led to a strong reduction of cross-linking efficiency, and Mn2+ no longer stimulated the reaction. Sites of 8-azido-ATP cross-linking were mapped in different poly(A) polymerases by CNBrcleavage and analysis of tryptic peptides by mass spectroscopy. The main cross-link in Schizosaccharomyces pombe poly(A) polymerase could be assigned to the peptide DLELSDNNLLK (amino acids 167-177). Database searches with sequences surrounding the cross-link site detected significant homologies to other nucleotidyltransferase families, suggesting a conservation of the nucleotide-binding fold among these families of enzymes. Mutations in the region of the "helical turn motif" (a domain binding the triphosphate moiety of the nucleotide) and in the suspected nucleotide-binding helix of bovine poly(A) polymerase impaired ATP binding and catalysis. The results indicate that ATP is bound in part by the helical turn motif and in part by a region that may be a structural analog to the fingers domain found in many polymerases.
- L4 ANSWER 3 OF 3 MEDLINE
- AN 97238549 MEDLINE
- DN 97238549 PubMed ID: 9131999
- TI Chemical cross-linking of the human immunodeficiency virus type 1 Tat protein to synthetic models of the RNA recognition sequence TAR containing site-specific trisubstituted pyrophosphate analogues.
- AU Naryshkin N A; Farrow M A; Ivanovskaya M G; Oretskaya T S; Shabarova Z A; Gait M J
- CS Laboratory of Molecular Biology, Medical Research Council, Cambridge, U.K.
- SO BIOCHEMISTRY, (1997 Mar 25) 36 (12) 3496-505. Journal code: AOG; 0370623. ISSN: 0006-2960.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199704

ED Entered STN: 19970507

Last Updated on STN: 19970507

Entered Medline: 19970429

AΒ A chemical ligation procedure has been developed for the synthesis of oligoribonucleotides carrying a trisubstituted pyrophosphate (tsp) linkage in place of a single phosphodiester. Good yields of tsp were obtained when a single 2'-deoxynucleoside 5' to the tsp was used in the ligation reaction. A tsp linkage was found to be reasonably stable to hydrolysis but cleaved by treatment with ethylenediamine or lysine to give phosphoamidate adducts. A model human immunodeficiency virus type 1 (HIV-1) TAR RNA duplex containing an activated tsp was able to bind to HIV-1 Tat protein with only 3-fold reduced affinity and to a Tat peptide (residues 37-72) with identical affinity compared to that of an unmodified duplex. Tsps incorporated at sites previously identified as being in close proximity to Tat protein were able to cross-link to Tat peptide (37-72) to form a covalent phosphoamidate conjugate. Endopeptidase cleavage followed by MALDI-TOF (matrix-assisted laser desorption ionization time of flight) mass spectrometric analysis provided strong evidence that a TAR duplex containing a tsp replacing the phosphate at 38-39 had reacted specifically with Lys51 in the basic region of Tat peptide (37-72). The new chemical cross-linking method may be generally useful for identifying lysines in close proximity to phosphates in basic RNA-binding domains of proteins.

=> d 14 1-3 kwic

L4 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB. . . curl virus Rep protein for in vivo and in vitro analyses. Isolating a covalent peptide-nucleotide complex, we have identified the amino acid of Rep which mediates cleavage and links the protein to DNA. We show that tyrosine-103, located in a conserved sequence motif, initiates DNA cleavage and is the. . .

IT Miscellaneous Descriptors

DNA CLEAVAGE; PROTEIN-NUCLEIC ACID INTERACTION; REPLICATION INITIATION; 103-TYROSINE

L4 ANSWER 2 OF 3 MEDLINE

AB . . . cross-linking efficiency, and Mn2+ no longer stimulated the reaction. Sites of 8-azido-ATP cross-linking were mapped in different poly(A) polymerases by CNBr-cleavage and analysis of tryptic peptides by mass spectroscopy. The main cross-link in Schizosaccharomyces pombe poly(A) polymerase could be assigned to the peptide DLELSDNNLLK (amino acids 167-177). Database searches with sequences surrounding. . .

Sequence Data

Mutagenesis, Site-Directed

Nucleotidyltransferases: CH, chemistry Nucleotidyltransferases: ME, metabolism

Peptide Fragments: CH, chemistry Peptide Fragments: ME, metabolism

Peptide Mapping

*Polynucleotide Adenylyltransferase: CH, chemistry
*Polynucleotide Adenylyltransferase: ME, metabolism

Protein Conformation

Recombinant Proteins: CH, chemistry Recombinant Proteins: ME, metabolism Schizosaccharomyces: EN, enzymology

Sequence Alignment Sequence Homology,. . .

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O (Affinity Labels); O (Azides); O (Peptide Fragments); O (Recombinant
CN
     Proteins); EC 2.7.7 (Nucleotidyltransferases); EC 2.7.7.19 (
     Polynucleotide Adenylyltransferase)
     ANSWER 3 OF 3
                       MEDLINE
L4
AΒ
     . . . an unmodified duplex. Tsps incorporated at sites previously
     identified as being in close proximity to Tat protein were able to cross-
     link to Tat peptide (37-72) to form a covalent
     phosphoamidate conjugate. Endopeptidase cleavage followed by
     MALDI-TOF (matrix-assisted laser desorption ionization time of flight)
    mass spectrometric analysis provided strong evidence that a TAR duplex.
CT
Products, tat: CS, chemical synthesis
     *Gene Products, tat: ME, metabolism
     *HIV Long Terminal Repeat
     *HIV-1
     *Models, Chemical
     Molecular Sequence Data
       Oligonucleotides: CS, chemical synthesis
       Oligonucleotides: CH, chemistry
      Peptide Fragments: CH, chemistry
     Peptide Fragments: ME, metabolism
     *RNA, Viral: ME, metabolism
     Spectrometry, Mass, Matrix-Assisted Laser Desorption-Ionization
CN
    0 (Cross-Linking Reagents); 0 (Diphosphates); 0 (Gene Products, tat); 0 (
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Oligonucleotides); 0 (Peptide Fragments); 0 (RNA, Viral)

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